

WHAT IS CLAIMED IS:

1. A server apparatus connectable to client apparatuses via a radio transmission medium, comprising:

5           a storage unit storing list data indicating a priority order of the client apparatuses in allocating an exclusive period thereto, the exclusive period being a period in which exclusive use of the radio transmission medium is permitted;

10          a control unit configured to allocate the exclusive period to the client apparatuses in accordance with the priority order indicated by the list data; and

15          a processing unit configured to rearrange the priority order of the client apparatuses on the list data using situation data indicating a situation of one of the client apparatuses, when the situation data is transmitted from the one.

20          2. The server apparatus according to claim 1, wherein the situation data includes data indicating a transfer rate required by the client apparatus.

25          3. The server apparatus according to claim 1, wherein the processing unit rearranges the priority order based on at least a combination of type data indicating a type of the client apparatus and the situation data.

4. The server apparatus according to claim 1,

wherein the processing unit refers to a change of the situation data with time to rearrange the priority order.

5. The server apparatus according to claim 1,  
wherein the processing unit rearranges the priority  
order, when a certain client apparatus is registered or  
removed with respect to the list data.

6. A client apparatus connectable to a server  
apparatus via a radio transmission medium, comprising:

10 a permission request unit configured to request  
the server apparatus for permission of exclusive use of  
the radio transmission medium by the client apparatus;  
and

15 a situation notification unit configured to  
transmit situation data indicating a situation of one  
of the client apparatuses to the server apparatus,  
after the server apparatus admits the permission.

7. The client apparatus according to claim 6,  
wherein the situation data includes data indicating  
20 a transfer rate required by the client apparatus.

8. The client apparatus according to claim 6,  
wherein the situation notification unit transmits the  
situation data, when there is a change in the situation  
of one of the client apparatuses.

25 9. A communication control method for use in  
a server apparatus connectable to client apparatuses  
via a radio transmission medium, comprising:

storing in the server apparatus list data indicating a priority order of the client apparatuses in allocating an exclusive period thereto, the exclusive period being a period in which exclusive use 5 of the radio transmission medium is permitted;

executing a control to allocate the exclusive period to the client apparatuses in accordance with the priority order indicated by the list data; and

10 rearranging the priority order of the client apparatuses on the list data using situation data indicating a situation of one of the client apparatuses, when the situation data is transmitted from the one.

15 10. The communication control method according to claim 9, wherein the situation data includes data indicating a transfer rate required by the client apparatus.

20 11. The communication control method according to claim 9, wherein the rearrangement of the priority order is carried out based on at least a combination of type data indicating a type of the client apparatus and the situation data.

25 12. The communication control method according to claim 9, wherein the rearrangement of the priority order is carried out in accordance with a change of the situation data with time.

13. The communication control method according to

claim 9, wherein the rearrangement of the priority order is carried out, when a certain client apparatus is registered or removed with respect to the list data.